

CLAIMS

1. A write-once-type recording medium on which record data can be recorded only once, comprising:

5 a data area to record therein the record data; and

a shared area to temporarily record therein evacuation data which is record data to be recorded or already recorded at a position of a defect in said data area and defect management information including an evacuation source address of the evacuation data,

10 the evacuation data being recorded with one predetermined point which exists in said shared area as a start point, the defect management information being recorded with another predetermined point which exists at a different point from the one point as a start point, in said shared area.

15 2. The write-once-type recording medium according to claim 1, wherein the evacuation data is continuously recorded with the one point as the start point and the defect management information is continuously recorded with the another point as the start point, in said shared area.

20 3. The write-once-type recording medium according to claim 1, wherein the one point corresponds to one end point in said shared area, and the another point corresponds to the other end point which faces the one end point in said shared area.

25 4. The write-once-type recording medium according to claim 1, wherein the evacuation data and the defect management information are each

recorded, repeatedly, a plurality of times, in said shared area.

5. The write-once-type recording medium according to claim 1, comprising a plurality of shared areas.

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6. The write-once-type recording medium according to claim 1, further comprising a control information recording area to record therein information for controlling at least one of operations of recording and reading in said data area, said control information recording area including a definite defect
10 management area to record therein defect management information of said data area.

7. The write-once-type recording medium according to claim 6, wherein said shared area is disposed between said control information recording area
15 and said data area.

8. A recording apparatus for recording record data onto a write-once-type recording medium on which record data can be recorded only once, comprising: a data area to record therein the record data; and a shared
20 area to temporarily record therein evacuation data which is record data to be recorded or already recorded at a position of a defect in said data area and defect management information including an evacuation source address of the evacuation data,

said recording apparatus comprising:

25 a first recording device for recording the record data into said data area; and

a second recording device for recording the evacuation data and the defect management information into said shared area,

said second recording device recording the evacuation data with one predetermined point which exists in said shared area as a start point, said
5 second recording device recording the defect management information with another predetermined point which exists at a different point from the one point as a start point, in said shared area.

9. The recording apparatus according to claim 8, wherein said second
10 recording device continuously records the evacuation data with the one point as the start point, the one point corresponding to one end point in said shared area, and said second recording device continuously records the defect management information with the another point as the start point, the another point corresponding to the other end point which faces the one end
15 point in said shared area.

10. A recording method of recording record data onto a write-once-type recording medium on which record data can be recorded only once, comprising: a data area to record therein the record data; and a shared area
20 to temporarily record therein evacuation data which is record data to be recorded or already recorded at a position of a defect in said data area and defect management information including an evacuation source address of the evacuation data,

said recording method comprising:

25 a first recording process of recording the record data into said data area; and

a second recording process of recording the evacuation data and the defect management information into said shared area,

said second recording process recording the evacuation data with one predetermined point which exists in said shared area as a start point, said
5 second recording process recording the defect management information with another predetermined point which exists at a different point from the one point as a start point, in said shared area.. .

11. A reproducing apparatus for reproducing the record data recorded on
10 the write-once-type recording medium according to claim 1,

said reproducing apparatus comprising:

a reading device for reading the defect management information recorded in said shared area; and

a reproducing device for reproducing the record data recorded in said
15 data area or the evacuation data recorded in said spare area, on the basis of the defect management information.

12. A reproducing method of reproducing the record data recorded on the write-once-type recording medium according to claim 1,

20 said reproducing method comprising:

a reading process of reading the defect management information recorded in said shared area; and

a reproducing process of reproducing the record data recorded in said data area or the evacuation data recorded in said spare area, on the basis of
25 the read defect management information.

13. A computer program for recording control to control a computer disposed in the recording apparatus according to claim 8, said program making the computer function as at least one portion of said first recording device and said second recording device.

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14. A computer program for reproduction control to control a computer disposed in the reproducing apparatus according to claim 11, said program making the computer function as at least one portion of said reading device and said reproducing device.

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15. A data structure comprising:

a data area to record therein the record data; and

a shared area to temporarily record therein evacuation data which is record data to be recorded or already recorded at a position of a defect in said data area and defect management information including an evacuation source address of the evacuation data,

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the evacuation data being recorded with one predetermined point which exists in said shared area as a start point, the defect management information being recorded with another predetermined point which exists at a different point from the one point as a start point, in said shared area.

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